

05-02-07

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Harrington & Harrington

Curtis L. Harrington

6300 State University Drive, Suite 250

Long Beach, California 90815

(562)594-9784; (714)374-9549; Fax(562)594-4414

PATENTAX®

April 28, 2007

Commissioner of Patents & Trademarks
P.O. Box 1450
Arlington, VA 22313-1450

PATENT
Docket No. KIYO-44
Date: April 28, 2007

Dear Sir:

Accompanying this letter is an an INFORMATION DISCLOSURE STATEMENT relating to the **Utility** patent app. of: Katsuro Tsukamoto For: HEAT RELEASE SHEET AND HEAT SINK S/N 10/826,002; the transmission including the transmission consisting of: (1) Information Disclosure Statement (five pages), (2) references, (3) form PTO 1449, (4) references (5) Check No. 4676 for \$ 180.00 for the Information Disclosure Statement fee Under 1.17(p) & (6) an acknowledgement Post card. "EXPRESS MAIL" mailing label number: EM 050 335 404 US dkt: KIYO-44 Mailed April 30, 2007

This amendment is not submitted in response to an office action communication. Accordingly, this document is

XX timely;

 late by months. If late, enclosed is a check for \$ 00.00 in payment of the extension fee pursuant to 37 C.F.A. section 1.17.

The response:

XX does not add claims requiring payment of an additional fee;

 does add claims requiring payment of an additional fee, which fee is calculated below.

The additional fees have been calculated as follows:

The additional fees have been calculated as follows:

Excess Claims Fees

	Number <u>current</u>	Number <u>paid for</u>	Rate			
Total <u>claims:</u>	10 -	61 = 0	x \$ 25	=	\$	0
Independent <u>claims:</u>	1 -	3 = 0	x \$100	=	\$	0
						\$ 0

Should any additional fee be required or should any excess fee be paid, please charge or credit such amounts to charge account no. 08-0765.

Respectfully,



Curt Harrington
Reg. No. 31,456

- Enclosures
1. Acknowledgment postcard
 2. Information Disclosure Statement (14 pages)
 3. References
 4. Check No. 4676 for \$180 under 1.17(p)



Docket No. KIYO-44

UNITED STATES DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Serial No:	10/826,002) Confirmation: 9225
Inventor:	Katsuro Tsukamoto)
Filing Date:	April 16, 2004)
TC/A.U.:	3753) Date: April 28, 2007
Docket	KIYO-44)
Examiner:	Duong, Tho V.) Priority:
Title:) Japan 2004-6061
HEAT RELEASE SHEET AND HEAT SINK)
) Fax: 571 273 8300

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 CFR section 1.97, the Applicant submits the following information, accompanied by a copy of the cited documents. Form PTO 1449 is attached. A detailed discussion will follow.

By submitting these materials, the applicant does not concede that all are prior art. They do not know when some of the competitive devices were first made public. These references were recently provided by the applicant's Japan Patent Attorney.

Introduction:

The inventor of the invention set forth in the application identified in the heading of this document is an individual. The inventors have participated in the design and development of the invention.

Some of the references appear to be relevant to, or useful in, evaluating the present patent application. For the purpose

of completeness and accuracy, this patents are enclosed.

References:

1. Japan Patent Reference JP 2003-60140 of 2003/02/28 was made under patent application number 2001-249594 and discloses a rectangular fin device.
2. Japan Patent Reference JP 2003-168882 of 2003/06/13 was made under patent application number 2001-365806 and discloses a heat conductive sheet adjacent silicone rubber sheets and wherein a white metal powder is used as a filler.
3. U.S. Patent No. 3,492,197 which issued on 1/27/1970 and entitled NOVEL COMPRESSED COHERED GRAPHITE STRUCTURES AND METHOD OF PREPARING SAME discloses production of graphite by compressing expanded vermicular graphite.
4. U.S. Patent No. 4,234,638 which issued on 11/18/1980 and entitled COMPOSITE GRAPHITE SHEETS discloses a punched metal sheet, surrounded by graphite.
5. U.S. Patent No. 4,471,837 which issued on 9/18/1984 and entitled GRAPHITE HEAT SINK MOUNTINGS discloses a sheet for mounting underneath a transistor to hel dissipate heat to an expanded fin structure.
6. U.S. Patent No. 4,902,024 which issued on 2/20/1990 and entitled SPHERICAL SEALING BODY USED FOR THE EXHAUST PIPE JOINTS AND A METHOD OF MANUFACTURING THEREOF discloses an annular sealing arrangement for use between a pipe and a larter annular space and including a deformable material.

7. U.S. Patent No. 5,390,734 which issued on 1/21/1995 and entitled HEAT SINK discloses a bundle of conductive fibers which extend between two members to transmit heat.
8. U.S. Patent No. 5,769,158 which issued on 6/23/1998 and entitled INTERFACE PORTION STRUCTURE AND REINFORCING STRUCTURE OF FLEXIBLE THERMAL JOINT discloses a sandwich arrangement between heat sink material and carbon fibers.
9. U.S. Patent No. 6,027,807 which issued on 2/22/2000 and entitled GRAPHITE CLADDING LAMINATE STRUCTURAL MATERIAL AND A GRAPHITE DEVICE HAVING SAID MATERIAL discloses a mesh grid overlying a graphite sheet.
10. U.S. Patent No. 6,131,651 which issued on 10/17/2000 and entitled FLEXIBLE HEAT TRANSFER DEVICE AND METHOD discloses a pair of metal sheets enclosing a graphite core sheet and used for heat transmission, as well as the use of "via" holes to prevent de-lamination.
11. U.S. Patent No. 6,257,328 which issued on 7/10/2001 and entitled THERMAL CONDUCTIVE UNIT AND THERMAL CONNECTION STRUCTURE USING THE SAME discloses a thermal conductive transfer unit assembly shaped in correspondence to a heat path.
12. U.S. Patent No. 6,482,520 which issued on 11/19/2002 and entitled THERMAL MANAGEMENT SYSTEM discloses a structure and system having cavities and coolant.
13. U.S. Patent No. 6,542,371 which issued on 4/1/2003 and entitled HIGH THERMAL CONDUCTIVITY HEAT TRANSFER PAD

discloses a weave of carbon fiber threads in a heat material.

14. U.S. Patent No. 6,699,540 which issued on 3/2/2004 and entitled MATERIALS OF PACKING AND PACKING MADE FROM THE MATERIALS discloses a material woven to make packing.

RECEIPT WITHOUT FEE DUE (not applicable in this case)

This disclosure statement should be received without fee because:

_____ Under 37 CFR 1.97 (b) this information disclosure statement is filed: (1) within three months of the filing date of a national application; or (2) Within three months of the date of entry of the national stage as set forth in w 1.491 in an international application; or (3) Before the mailing date of a first Office action on the merits.

N/A Certification

Attorney for Applicant Certifies that:

_____ (0) This disclosure statement is being filed with the patent application.

_____ (1) That each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement, (facts outlined above) or

_____ (2) That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in # 1.56(c) more than three months prior to the filing of the statement. (Cited in related U.S.

Application)

For the foregoing reasons, the Applicants submits that these references neither disclose nor suggest the claimed invention.

Dated: April 18, 2007

Respectfully submitted:



Tel. (562) 594-9784
Fax. (562) 594-4414
Docket: KIYO-44

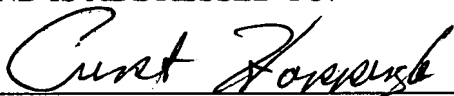
Curt Harrington, Reg.No. 31,456
Suite 250
6300 State University Drive
Long Beach, CA 90815

"EXPRESS MAIL" MAILING LABEL NUMBER: No: EM 050 335 404 US

DATE OF DEPOSIT: **April 30, 2007**

I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO:

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Curtis L. Harrington, Reg. No. 31,456

PTO-1449		Page 1/1		U.S. Patent Application No. 10/826,002		KIYO-44	
INFORMATION DISCLOSURE CITATION				Inventor: Takashima, Hisato			
				HEAT RELEASE SHEET AND HEAT SINK		Group Art U: 3753	
U.S. Patent Documents							
Exmr	Doc. Number	Date	Name	C	Sb	FD	
	3,492,197	1/1970					
	4,234,638	11/1980					
	4,471,837	9/1984					
	4,902,024	2/1990					
	5,390,734	1/1995					
	5,769,158	6/1998					
	6,027,807	2/2000					
	6,131,651	10/2000					
	6,257,328	7/2001					
	6,482,520	11/2002					
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FOREIGN PATENT DOCUMENTS							
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